Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Whirlpool 65889-4

Whirlpool 65889-4 Run Capacitor for Refrigerator User Manual

Model: 65889-4 | Brand: Whirlpool

1. Introduction

This manual provides essential information for the Whirlpool 65889-4 Run Capacitor, a genuine replacement part designed for various refrigerator models. Understanding its function, proper installation, and maintenance can help ensure the longevity and efficient operation of your appliance. This component is critical for the starting and continuous operation of the refrigerator's compressor motor.

2. Safety Information

WARNING: Electrical Shock Hazard.

- Always disconnect power to the refrigerator before attempting any repair or replacement. Failure to do so can result in serious injury or death.
- Capacitors can store an electrical charge even after power is disconnected. It is crucial to discharge the capacitor safely before handling. Consult a qualified technician if you are unsure how to do this.
- Installation of this part should only be performed by a qualified appliance repair technician. Improper installation can lead to appliance damage, fire, or personal injury.
- Wear appropriate personal protective equipment, including insulated gloves and safety glasses.

3. Product Description

The Whirlpool 65889-4 is a genuine run capacitor, an essential electrical component in many refrigerator compressor systems. It provides the necessary phase shift to the compressor's start winding, helping the motor to start efficiently, and then remains in the circuit to improve the motor's running efficiency and power factor. This part is a direct replacement for original equipment in compatible Whirlpool, Maytag, Admiral, and Frigidaire models.



Figure 3.1: The Whirlpool 65889-4 Run Capacitor shown with its factory certified packaging. This image highlights the official branding and part number, ensuring authenticity.



Figure 3.2: A detailed view of the Whirlpool 65889-4 Run Capacitor, displaying the electrical specifications and model markings on its surface. This includes voltage, capacitance, and frequency ratings.

4. Setup and Installation

Due to the electrical nature of this component and the potential for stored charge, installation should only be performed by a qualified service technician. The following steps are for informational purposes only and do not constitute a complete guide for DIY repair.

1. **Disconnect Power:** Ensure the refrigerator is unplugged from the wall outlet or the circuit breaker is turned off.
2. **Access Compressor Area:** Locate the compressor and its associated electrical components, typically at the back or bottom of the refrigerator.
3. **Identify Old Capacitor:** Identify the existing run capacitor. Note its orientation and wiring connections.
4. **Discharge Capacitor:** Safely discharge the old capacitor using a properly insulated tool (e.g., a screwdriver with an insulated handle and a resistor across the terminals). This step is critical to prevent electrical shock.
5. **Remove Old Capacitor:** Disconnect the wires from the old capacitor and remove it from its mounting bracket.

6. **Install New Capacitor:** Connect the wires to the new Whirlpool 65889-4 capacitor, ensuring correct polarity if applicable. Secure the new capacitor in the mounting bracket.
7. **Restore Power:** Once the new capacitor is securely installed and all connections are verified, restore power to the refrigerator.
8. **Test Operation:** Monitor the refrigerator's operation to ensure the compressor starts and runs correctly.

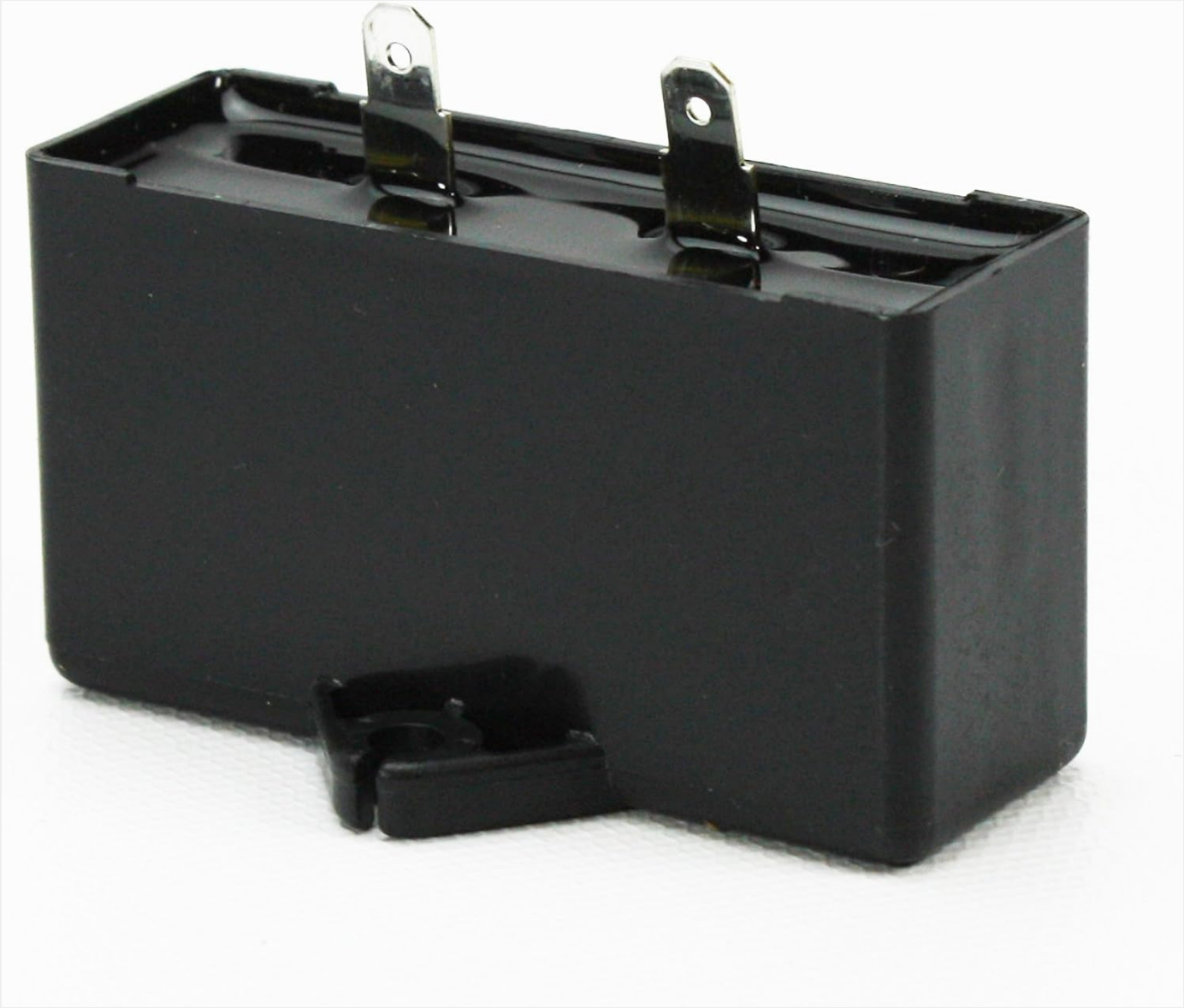


Figure 4.1: Side view of the capacitor, illustrating the two electrical terminals for connection to the refrigerator's compressor circuit. Proper connection is vital for function.



Figure 4.2: Bottom view of the capacitor, showing the integrated mounting tab. This tab allows for secure attachment within the appliance's housing, preventing vibration and movement.

5. Operating Principle

The run capacitor works in conjunction with the compressor motor. When the refrigerator calls for cooling, the compressor motor receives power. The run capacitor provides a continuous phase shift to the auxiliary winding of the motor, creating a rotating magnetic field that helps the motor run efficiently and smoothly. Unlike start capacitors, run capacitors remain in the circuit during the entire operation cycle of the compressor, contributing to its overall performance and energy efficiency.

6. Maintenance

Run capacitors are generally maintenance-free components. However, periodic inspection by a qualified technician during routine appliance servicing can help identify potential issues before they lead to complete failure. Signs of a failing capacitor may include:

- Bulging or swelling of the capacitor casing.
- Leaking fluid or residue around the terminals.
- Burn marks or discoloration on the casing or terminals.
- Audible clicking sounds from the compressor area without the compressor starting.

If any of these signs are observed, it is recommended to have the capacitor tested and replaced by a professional.

7. Troubleshooting

If your refrigerator's compressor is not starting or is struggling to start, a faulty run capacitor could be a cause. Common symptoms include:

- **Compressor Hums but Doesn't Start:** The compressor may make a humming noise for a few seconds and then shut off, often accompanied by a clicking sound from the overload protector. This indicates the motor is trying to start but lacks the necessary boost.
- **Refrigerator Not Cooling:** If the compressor is not running at all, or only intermittently, the refrigerator will not cool properly.
- **Increased Energy Consumption:** A weak capacitor can cause the compressor to work harder, leading to higher electricity bills.

Diagnosis and replacement of a faulty capacitor require specialized tools and knowledge. Always consult a qualified technician for troubleshooting and repair of refrigerator electrical components.

8. Specifications

Whirlpool 65889-4 Run Capacitor Specifications

Attribute	Value
Part Number	65889-4
Item Weight	1.6 ounces
Product Dimensions	6.5 x 3.2 x 0.9 inches
Manufacturer	Whirlpool
Compatibility	Works with various Whirlpool, Maytag, Admiral, Frigidaire models (e.g., 8ED2FHKXVA01, ARS2760BW, AS22N8DE, AS248K2K1, AS22N8DM)
Type	Run Capacitor

9. Warranty and Support

As a genuine Whirlpool replacement part, the 65889-4 Run Capacitor is designed to meet the high-quality standards of Whirlpool appliances. For specific warranty information regarding this replacement part, please refer to the documentation provided with your original appliance or contact Whirlpool customer support directly. Genuine replacement parts typically carry a limited warranty against defects in materials and workmanship.
For technical assistance, installation guidance, or to locate a certified service technician, please visit the official Whirlpool website or contact their customer service line. Always ensure that any service is performed by a qualified professional to maintain appliance safety and warranty validity.

Official Whirlpool Website: www.whirlpool.com

© 2024 Whirlpool Corporation. All rights reserved. This manual is for informational purposes only. Always consult a qualified technician for appliance repair.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B005BNM8EM

More documents and user manuals: **https://manuals.plus/**